1946

Uremia Due to Cystic Prostate in the Dog

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had been consistently fed raw liver, which is a good source of niacin. Thus, it may be that some animals are unable to digest, absorb and assimilate niacin from the digestive tract.

The use of intestinal protectives and astringents aids greatly in protecting the gastro-intestinal tract and easing the pain that is undoubtedly present in advanced cases of black tongue. When these measures are not taken, a fetid catarrhal hemorrhagic fecal discharge often develops due to degeneration and ulceration of the gastro-intestinal mucosa. Oral irrigation and cleansing with mild antiseptics help to make the patient comfortable.

—R. P. Fislter, Spring '43

### 5

**Compound Fractures of Metacarpals in the Dog.** A 7-year-old male terrier was admitted to the Stange Memorial Clinic July 16, 1946. The dog had been accidentally cut in a mower earlier that morning.

There were severe lacerations on the left front foot and on the right fore arm. The third, fourth and fifth metacarpals were severed, as well as the tendons of the third and fourth phalanges. The carpal-metacarpal joint capsule was involved at the articulation of the fifth metacarpal.

The patient was given nembutal for anesthesia, the wound areas were cleaned and the hair at the edges was shaved. The flexor tendons were sutured with No. 000 catgut. After careful cleansing, all wound surfaces were covered with a solution of sulfonamides. The skin wound was closed with metal wound clips and bandaged with a sulfanilamide pack. A splint was applied to keep the left foot flexed, preventing any tension on the flexor tendons and holding the severed bones in position. The skin wound on the right fore arm was closed with metal wound clips and dressed.

Aftercare included treatment with sulfanilamide powder and sulfathiazole ointment. The metal wound clips were removed after a week, and 10 days later the splint was discarded. The wound healed without further complications and the dog was discharged Aug. 9.

A guarded prognosis was made in this case due to the complete severing of the tendons, opening of joint capsules and exposure of the open wound to bacterial infection.

This report was included here due to the frequency of such accidents involving dogs and mowing machines. Usually little infection is encountered in cases like this, but the unusually rapid and uneventful recovery in this particular case is largely attributed to the use of sulfonamides.

—H. Heins, '49

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**Uremia Due to Cystic Prostate in the Dog.** On October 22, 1946, a 4-year-old male German Shepherd was admitted to the Stange Memorial Clinic. The owner's history of the case included vomiting and failure to eat for 3 days. The owner was reasonably sure that the dog had not passed urine for several days. The bladder had been emptied by the local veterinarian through the use of a trocar and canula on the morning of the day that the case was admitted.

Upon examination the animal demonstrated an elevated temperature (105.6°), extreme depression, hydroperitoneum and a breath heavy with the odor of urine. The blood urea laboratory test showed 304 mg. urea per 100 cc. of blood. This is the highest level recorded in the clinic for a dog. A large spherical swelling could readily be palpated in the abdominal cavity. At first this seemed to be the distended bladder, but after catheterizing and completely emptying the bladder it was still evident. This gave rise to speculation that it was an hematocyst caused either by rupture of the liver or of a blood vessel in the abdominal cavity. Thus, a tentative diagnosis of severe contusion was made.

The initial treatment consisted of administration of 250 cc. of 5 per cent dextrose in normal saline as a detoxifying agent and to partially restore the body
fluids. One hundred thousand Oxford units of penicillin were administered intravenously and 50,000 Oxford units in oil were given intramuscularly.

During the next 5 days the dog was catheterized twice daily, given 50,000 Oxford units of penicillin in oil at 12 hour intervals and was injected with 5 per cent dextrose and normal saline intravenously in 500 cc. doses. On the third and fifth days, 5 cc. of vitamin B complex was injected intramuscularly. On the fourth day a stomach tube was passed and approximately 10 ounces of diluted evaporated milk was delivered into the stomach. However, only about 5 ounces remained in the stomach as the rest was regurgitated immediately upon removal of the stomach tube.

The dog was found dead on the evening of the fifth day.

Necropsy revealed 2 cysts of the prostate, one on either side of the urethra. The larger of the 2 measured approximately 20 cm. in diameter while the smaller one measured about 5 cm. in diameter. Each cyst contained a slightly viscous fluid, sanguineous in color, in which was found many strands of fibrin. The lining of the large cyst contained an ossified layer, approximately 1/32 of an inch thick. The location of the larger cyst brought pressure against the neck of the bladder and the urethra thus preventing the normal passage of urine. This in time caused uremia, the toxic effects of which caused the death of the animal.

-A. J. Stellingr, Spring '43

Alopecia and Dermatitis of a Colt. A 3-week-old mare colt entered Stange Memorial Clinic with a large inguinal hernia. The technique of the operation performed on this colt was written up the summer 1945 Veterinary Student, and varied but little from the standard method. The therapy used following this operation consisted of intramuscular injections of 50,000 units of penicillin every 6 hours. These injections were continued for 10 days. Thus the animal received a total of 2,000,000 units of penicillin. During the convalescing period it was noticed that a mild dermatitis with alopecia was developing on the withers, neck and head. Skin scrapings were taken and found to be negative for external parasites. The etiology remained undetected.

It has been reported recently in human medical literature that dermatitis resulting from allergic reactions to penicillin has occurred. (1, 2, 3, 4) Since this was the first case to be noticed here at our clinic we offer penicillin allergy as a possible etiology of this dermatitis and alopecia.

BIBLIOGRAPHY

Fox pups are highly susceptible to contaminated meat, particularly if it has been allowed to become warm for a few hours. The pups frequently die in large numbers from eating meat that adult foxes may eat with impunity.

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